

PI 578085. *Beta vulgaris* L.

Breeding. C911-50; 3911-50. Pedigree - From popn-911. Half-sib family selected on basis of resistance to rhizomania, virus yellows, Erwinia, and bolting and for sugar yield performance. Sister line to C911-4. Narrowly based with Rz for resistance to rhizomania (BNYVV). Segregates M:mm. Moderately resistant to Erwinia (*E. carotovora beta vasculorum*), powdery mildew (*Erysiphe polygoni*), virus yellows (BYV & BWYV), curly top virus, and bolting. Performance traits good for sugar yield.

PI 578086. *Beta vulgaris* L.

Breeding. C76-43; R376-43-#(C); R376-43 (Iso). Pedigree - Selected from pair crosses between C31-43 and R76 that had the best per se performance for nonbolting and % sucrose. Eight selected pair crosses were recombined. R76 is the Rz near isoline of C31/6. Multigerm, self-sterile line. Traits similar to C31-43 but has the Rz resistance to rhizomania. Agronomic performance traits good. Moderately resistant to virus yellows (BYV, & BWYV). Moderately susceptible to curly top. High per se performance. Widely adapted in California. Useful as an advanced breeding line from which to make selections for potential parental lines

PI 578087. *Beta vulgaris* L.

Breeding. C76-89; R376-89-#(C); R376-89 (Iso). Pedigree - Selected from pair crosses between C31-89 and R76 that had the best per se performance for nonbolting and % sucrose. Six selected pair crosses were recombined. R76 is the Rz near isoline of C31/6. Multigerm, self-sterile line. Traits similar to C31-89 but has the Rz resistance to rhizomania. Similar to C76-43.

The following were developed by Robert T. Lewellen, USDA, ARS, U.S. Agricultural Research Station, 1639 E. Alisal St., Salinas, California 93905, United States. Received 02/25/1994.

PI 578088. *Beta vulgaris* L.

Breeding. "C604"; N304; N204. GP-159. Pedigree - From homozygous cyst nematode resistant S2 line derived from a cross between population 909 and B883. Homozygous, nematode (*Heterodera schachtii*) resistant line. Multigerm and self-fertile (Sf). Greatest value is as bridge from the cyst nematode resistant source B883 that has very poor agronomic and disease resistance traits to breeding material with nematode resistance adapted to the western USA. Hypocotyl color homozygous red.

The following were collected by Robert J. Metzger, USDA, ARS, Oregon State University, Dept. of Crop Science, Corvallis, Oregon 97331, United States; Ayla Sencor, Aegean Agric. Res. Inst. Gene Bank, Menemen, Izmir, Turkey; James A. Hoffman, USDA, ARS, Utah State University, Logan, Utah 84322, United States; M. Kanbertay, Aegean Agric. Res. Inst., Menemen, Izmir, Turkey. Donated by Robert J. Metzger, USDA, ARS, Oregon State University, Dept. of Crop Science, Corvallis, Oregon 97331, United States. Received 02/28/1994.

PI 578089. *Secale cereale* L. ssp. *cereale*

Cultivated. 79TK077-412; NSGC 5067. Collected 1979 in Van, Turkey. Elevation 1760 m. 9 km northwest of Ercis.

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